

Data Path : Z:\HPCHEM1\BNA F\DATA\BF040618\  
 Data File : BF104320.D  
 Acq On : 6 Apr 2018 21:56  
 Operator : JU/SJ  
 Sample : J2232-01  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Apr 06 23:12:07 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Apr 06 16:44:53 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.80  | 152  | 155900   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.09  | 136  | 624424   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.85  | 164  | 218846   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.35 | 188  | 226230   | 20.00 | ng    | 0.02     |
| 75) Chrysene-d12          | 13.97 | 240  | 311228   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.43 | 264  | 310669   | 20.00 | ng    | 0.00     |

## System Monitoring Compounds

|                          |       |     |         |       |    |      |
|--------------------------|-------|-----|---------|-------|----|------|
| 5) 2-Fluorophenol        | 5.42  | 112 | 1008202 | 98.88 | ng | 0.01 |
| 7) Phenol-d6             | 6.43  | 99  | 1251996 | 99.94 | ng | 0.00 |
| 23) Nitrobenzene-d5      | 7.37  | 82  | 743268  | 77.73 | ng | 0.00 |
| 41) 2,4,6-Tribromophenol | 10.64 | 330 | 219849  | 96.84 | ng | 0.00 |
| 44) 2-Fluorobiphenyl     | 9.17  | 172 | 1162847 | 83.94 | ng | 0.00 |
| 78) Terphenyl-d14        | 12.93 | 244 | 723398  | 52.99 | ng | 0.01 |

## Target Compounds

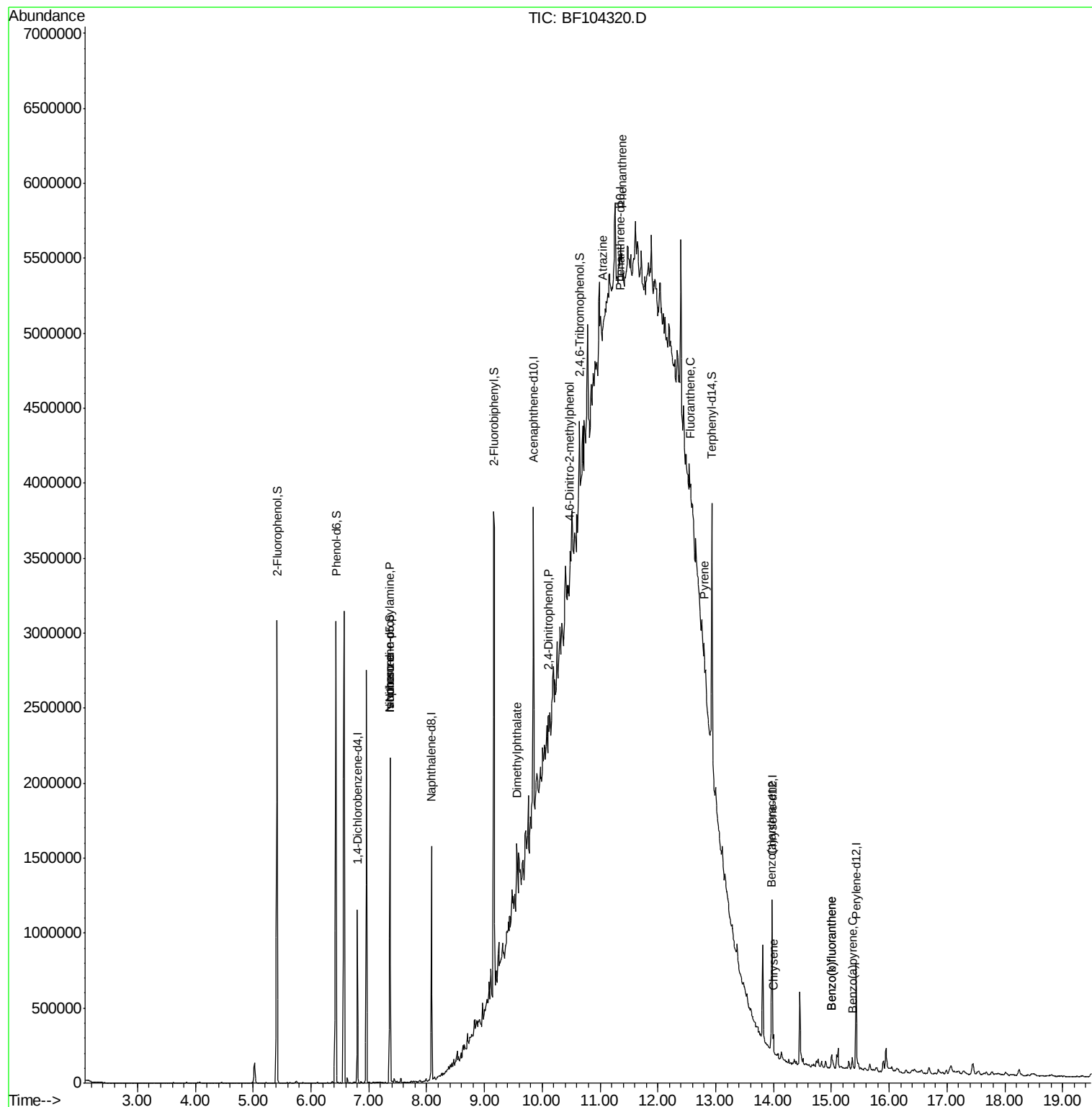
|                                |       |     |        |           |   | Qvalue |
|--------------------------------|-------|-----|--------|-----------|---|--------|
| 9) Benzaldehyde                | 6.43  | 77  | 1989   | Below Cal | # | 1      |
| 19) n-Nitroso-di-n-propylamine | 7.37  | 70  | 98809  | 12.070 ng | # | 75     |
| 25) Isophorone                 | 7.37  | 82  | 742807 | 36.733 ng | # | 64     |
| 49) Dimethylphthalate          | 9.56  | 163 | 115145 | 6.672 ng  | # | 94     |
| 53) 2,4-Dinitrophenol          | 10.10 | 184 | 163    | 5.312 ng  | # | 1      |
| 64) 4,6-Dinitro-2-methylphenol | 10.47 | 198 | 508    | 7.738 ng  | # | 1      |
| 68) Atrazine                   | 11.05 | 200 | 9941   | 4.199 ng  | # | 1      |
| 70) Phenanthrene               | 11.37 | 178 | 39402  | 3.127 ng  | # | 13     |
| 74) Fluoranthene               | 12.57 | 202 | 67417  | 5.122 ng  | # | 89     |
| 76) Benzidine                  | 12.64 | 184 | 1101   | Below Cal | # | 1      |
| 77) Pyrene                     | 12.79 | 202 | 76794  | 3.329 ng  | # | 93     |
| 80) Benzo(a)anthracene         | 13.96 | 228 | 43731  | 2.352 ng  | # | 94     |
| 82) Chrysene                   | 14.00 | 228 | 41347  | 2.165 ng  | # | 97     |
| 87) Benzo(b)fluoranthene       | 15.00 | 252 | 62409  | 3.181 ng  | # | 94     |
| 88) Benzo(k)fluoranthene       | 15.00 | 252 | 62409  | 3.369 ng  | # | 97     |
| 89) Benzo(a)pyrene             | 15.36 | 252 | 35543  | 2.025 ng  | # | 94     |

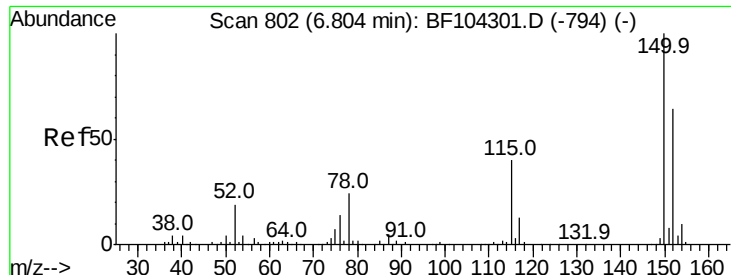
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampled :

Quant Time: Apr 06 23:12:07 2018  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Apr 06 16:44:53 2018  
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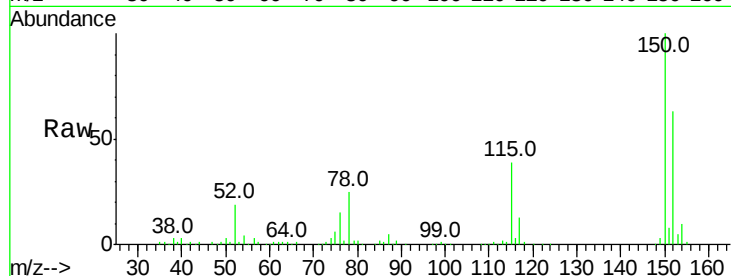


#1

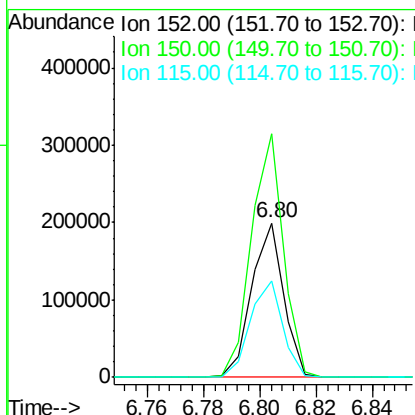
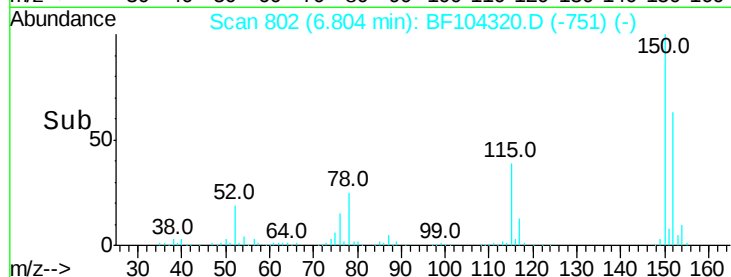
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.80 min Scan# 802  
Delta R.T. -0.00 min  
Lab File: BF104320.D  
Acq: 6 Apr 2018 21:56

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 155900  
Ion Ratio Lower Upper  
152 100  
150 158.0 124.6 186.8  
115 62.4 50.1 75.1



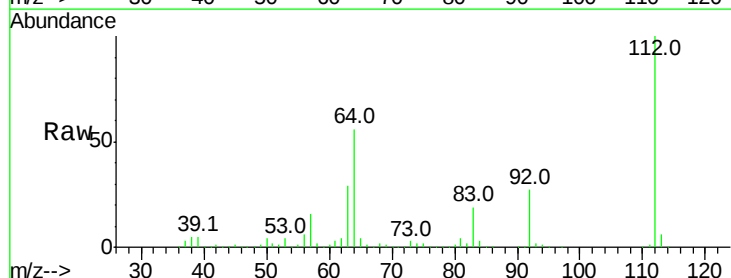
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



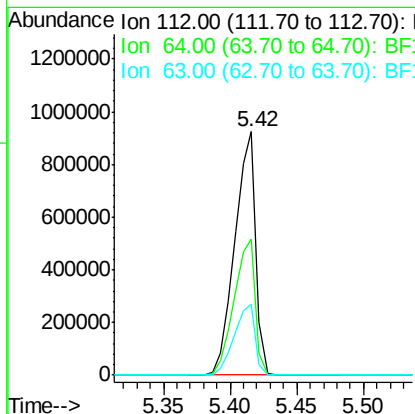
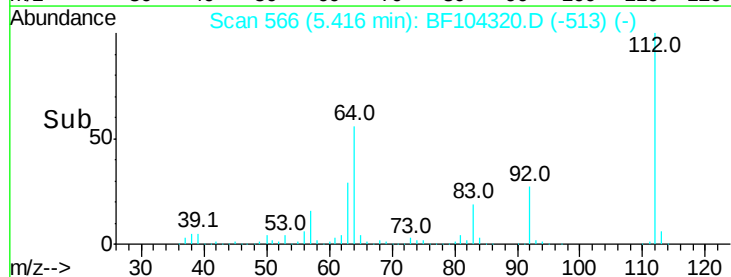
#5

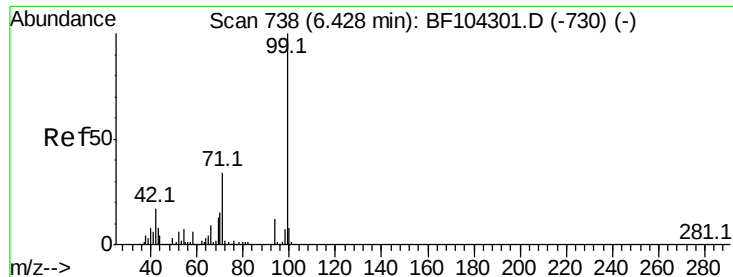
2-Fluorophenol  
Concen: 98.884 ng  
RT: 5.42 min Scan# 566  
Delta R.T. 0.01 min  
Lab File: BF104320.D  
Acq: 6 Apr 2018 21:56

Tgt Ion:112 Resp: 1008202  
Ion Ratio Lower Upper  
112 100  
64 56.1 47.9 71.9  
63 29.0 23.7 35.5



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BF1  
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 99.941 ng

RT: 6.43 min Scan# 739

Delta R.T. 0.01 min

Lab File: BF104320.D

Acq: 6 Apr 2018 21:56

Instrument :

BNA\_F

ClientSampled :

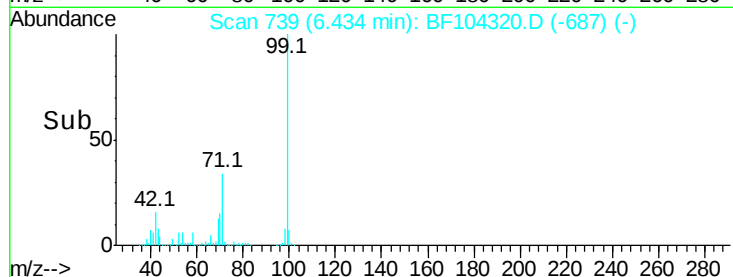
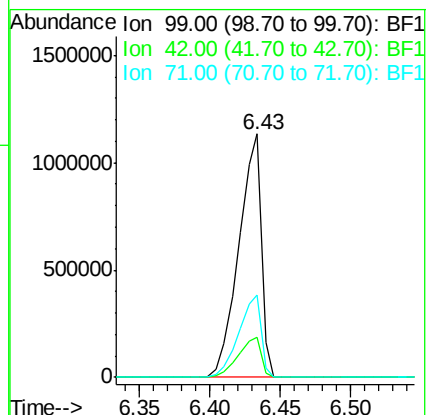
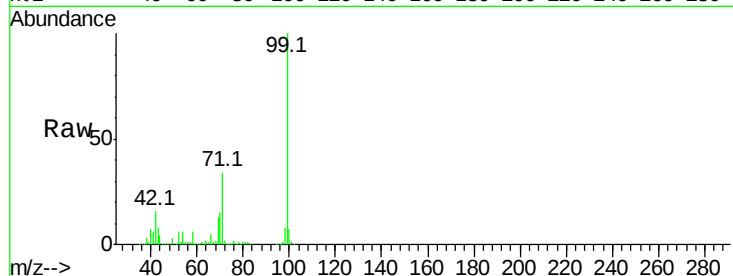
Tot Ion: 99 Resp: 1251996

Ion Ratio Lower Upper

99 100

42 16.3 14.5 21.7

71 33.6 25.4 38.0



#19

n-Nitroso-di-n-propylamine

Concen: 12.070 ng

RT: 7.37 min Scan# 898

Delta R.T. 0.15 min

Lab File: BF104320.D

Acq: 6 Apr 2018 21:56

Tgt Ion: 70 Resp: 98809

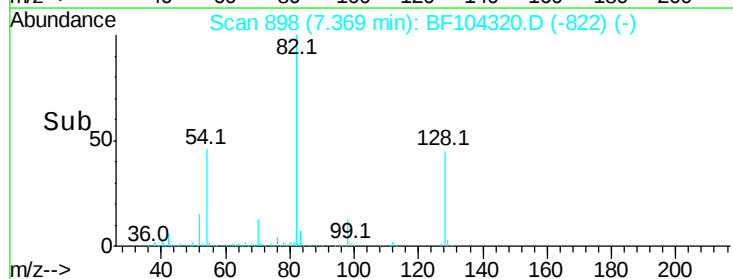
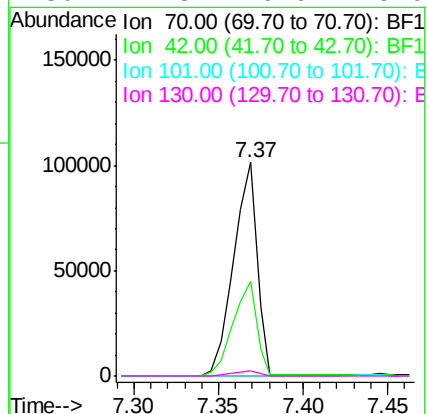
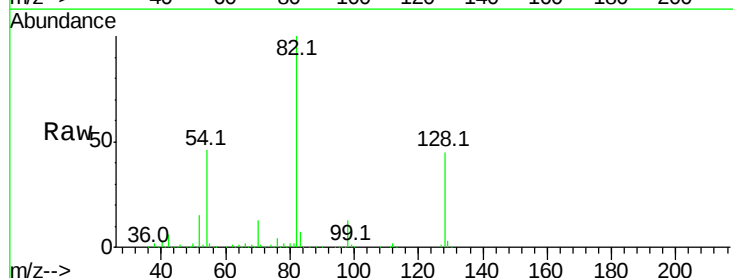
Ion Ratio Lower Upper

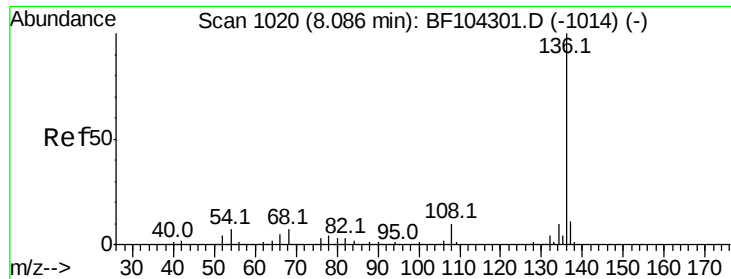
70 100

42 44.6 47.5 71.3#

101 0.0 7.4 11.2#

130 2.3 16.6 25.0#

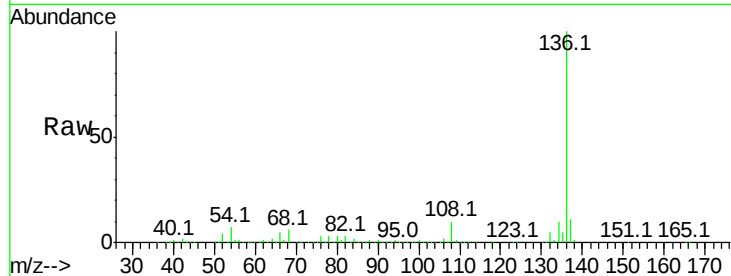




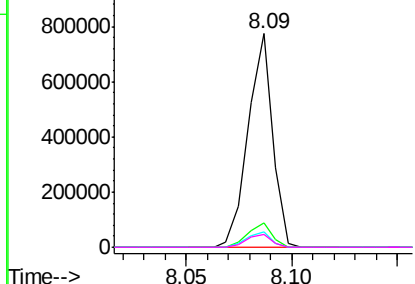
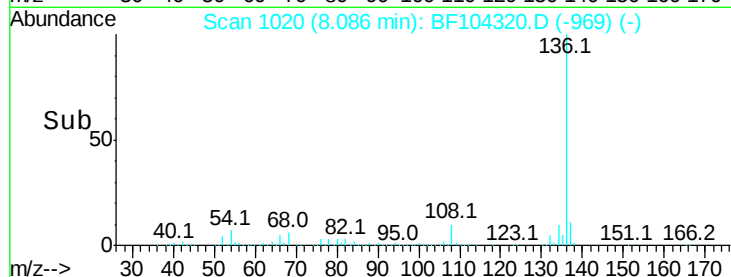
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.09 min Scan# 1020  
Delta R.T. -0.00 min  
Lab File: BF104320.D  
Acq: 6 Apr 2018 21:56

Instrument :  
BNA\_F  
ClientSampled :

|             |              |
|-------------|--------------|
| Tot Ion:136 | Resp: 624424 |
| Ion Ratio   | Lower Upper  |
| 136 100     |              |
| 137 11.3    | 8.9 13.3     |
| 54 7.3      | 6.6 9.8      |
| 68 6.2      | 5.0 7.4      |

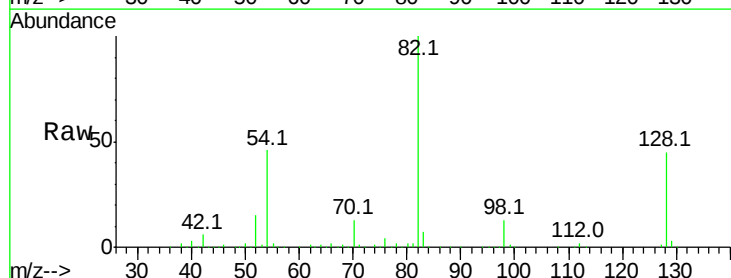


Abundance Ion 136.00 (135.70 to 136.70): E  
1200000  
Ion 137.00 (136.70 to 137.70): E  
1000000  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

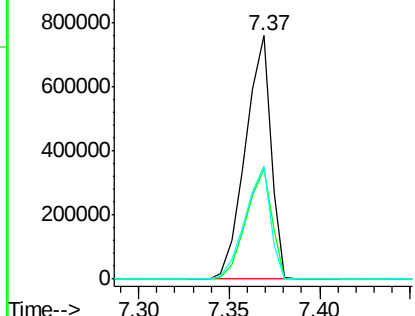
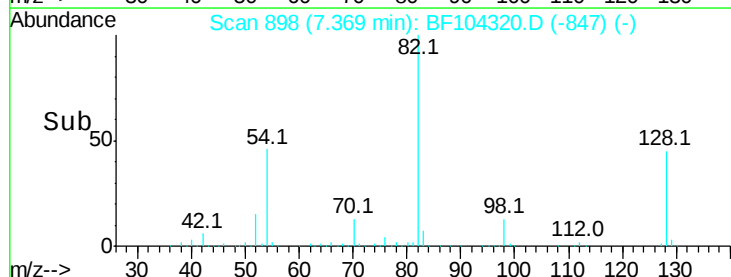


#23  
Nitrobenzene-d5  
Concen: 77.726 ng  
RT: 7.37 min Scan# 898  
Delta R.T. -0.00 min  
Lab File: BF104320.D  
Acq: 6 Apr 2018 21:56

|             |              |
|-------------|--------------|
| Tgt Ion: 82 | Resp: 743268 |
| Ion Ratio   | Lower Upper  |
| 82 100      |              |
| 128 45.4    | 36.1 54.1    |
| 54 46.3     | 41.4 62.2    |



Abundance Ion 82.00 (81.70 to 82.70): BF1  
1000000  
Ion 128.00 (127.70 to 128.70): E  
Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 36.733 ng

RT: 7.37 min Scan# 898

Delta R.T. -0.26 min

Lab File: BF104320.D

Acq: 6 Apr 2018 21:56

Instrument :

BNA\_F

ClientSampleId :

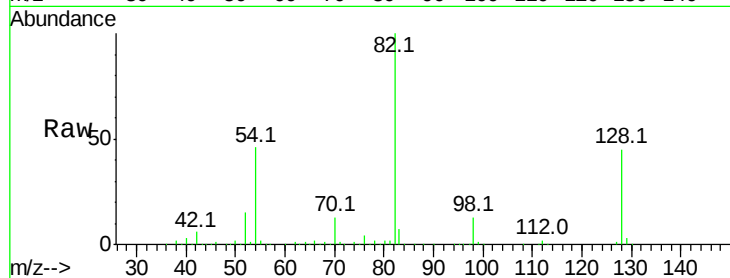
Tot Ion: 82 Resp: 742807

Ion Ratio Lower Upper

82 100

95 0.0 5.2 7.8#

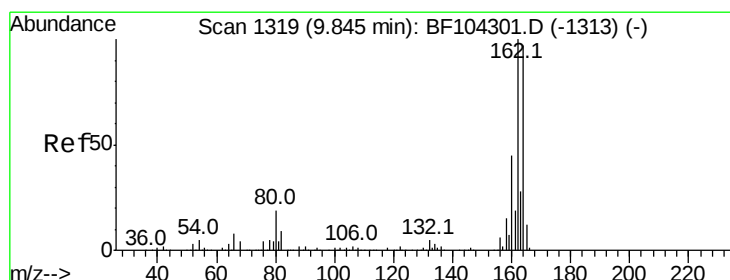
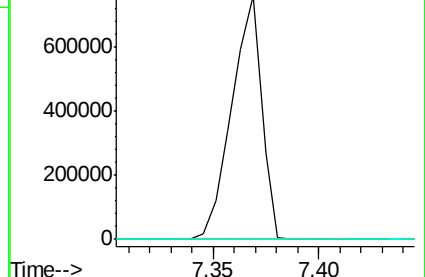
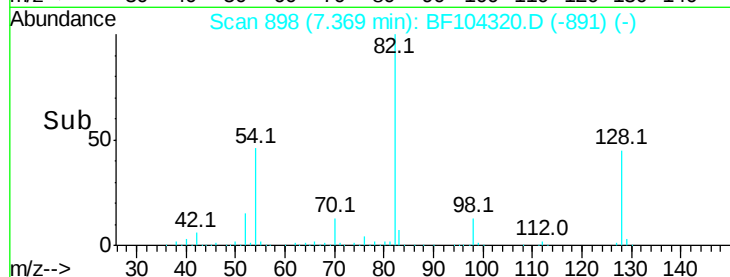
138 0.0 14.9 22.3#



Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 95.00 (94.70 to 95.70): BF1

Ion 138.00 (137.70 to 138.70): BF1



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.85 min Scan# 1319

Delta R.T. -0.00 min

Lab File: BF104320.D

Acq: 6 Apr 2018 21:56

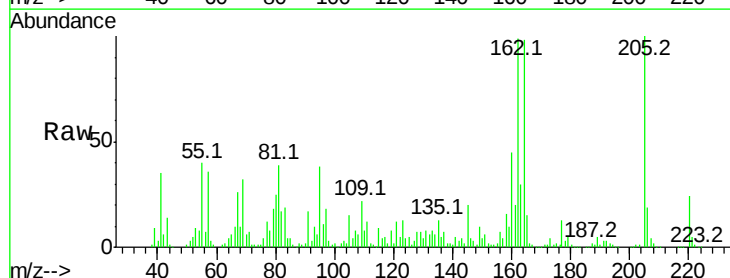
Tgt Ion:164 Resp: 218846

Ion Ratio Lower Upper

164 100

162 101.8 86.1 129.1

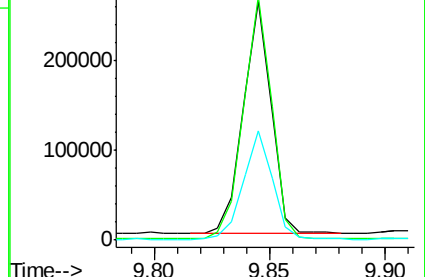
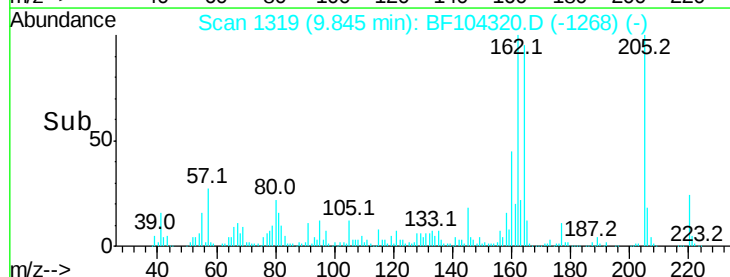
160 45.9 38.3 57.5



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

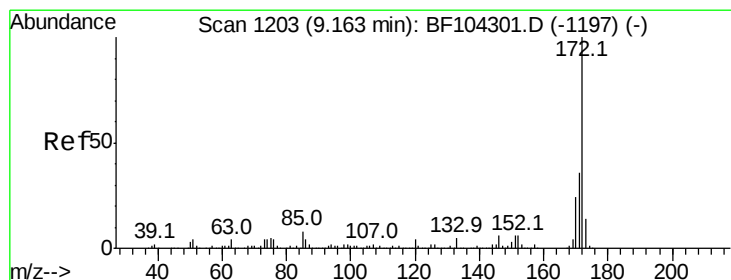
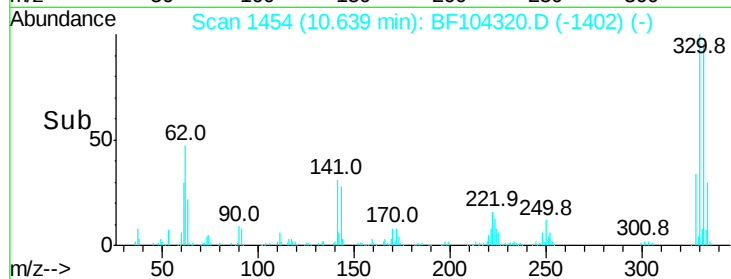
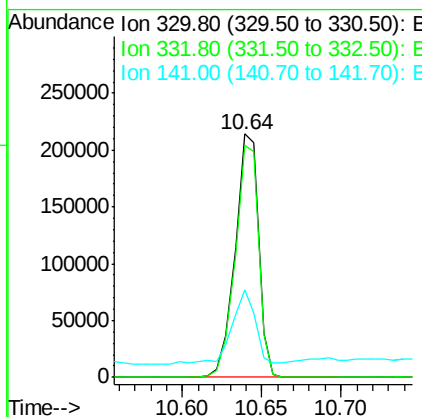
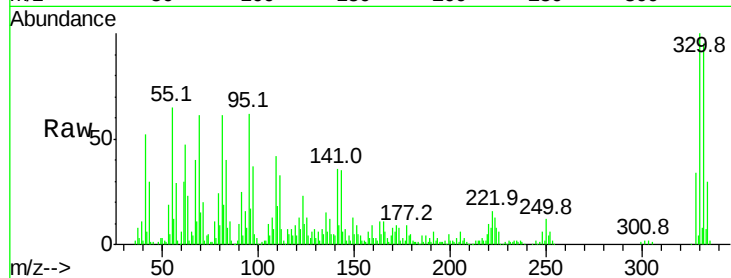




#41  
 2,4,6-Tribromophenol  
 Concen: 96.843 ng  
 RT: 10.64 min Scan# 1454  
 Delta R.T. 0.01 min  
 Lab File: BF104320.D  
 Acq: 6 Apr 2018 21:56

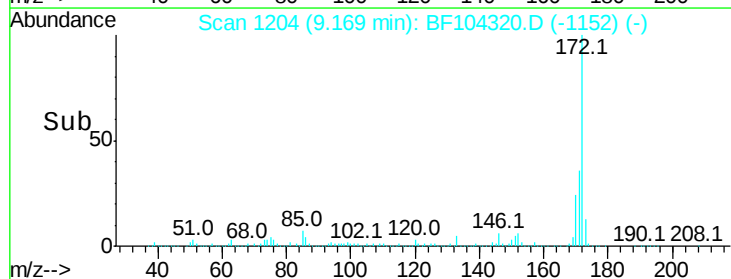
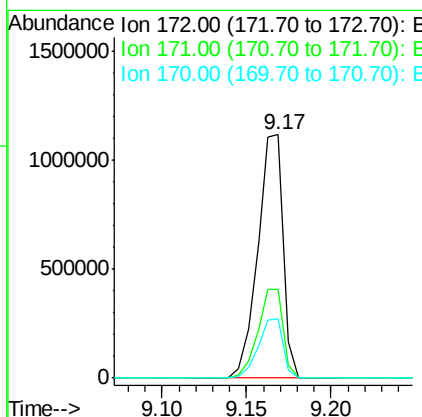
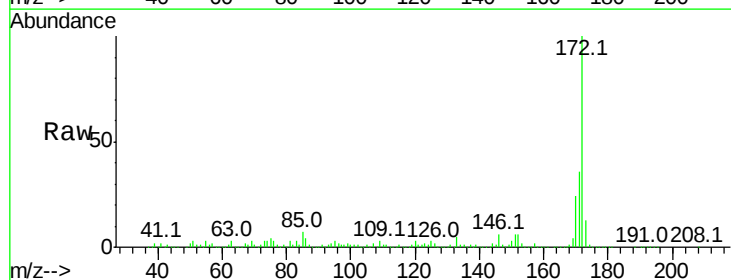
Instrument :  
 BNA\_F  
 ClientSampleId :

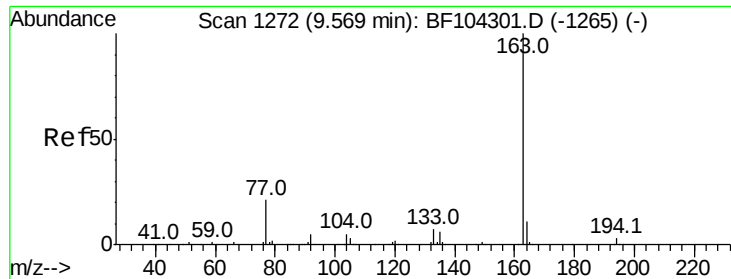
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.2  | 77.0  | 115.6 |
| 141     | 30.5  | 29.9  | 44.9  |



#44  
 2-Fluorobiphenyl  
 Concen: 83.941 ng  
 RT: 9.17 min Scan# 1204  
 Delta R.T. 0.01 min  
 Lab File: BF104320.D  
 Acq: 6 Apr 2018 21:56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.2  | 29.7  | 44.5  |
| 170     | 24.3  | 19.6  | 29.4  |

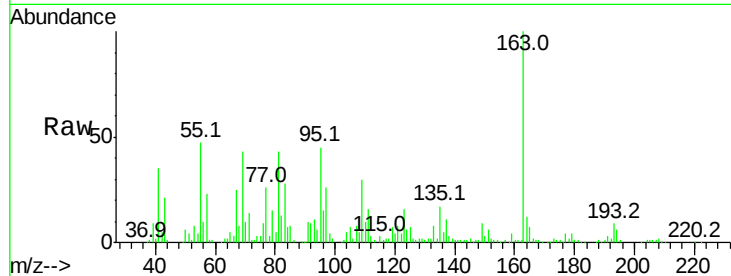




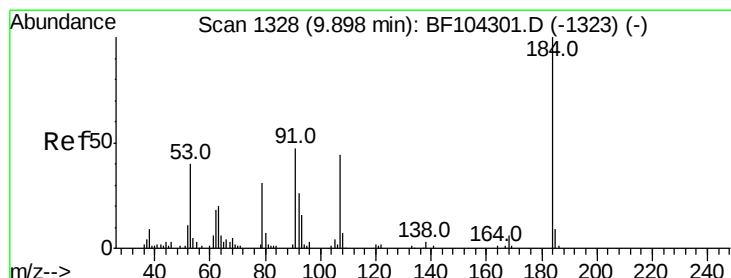
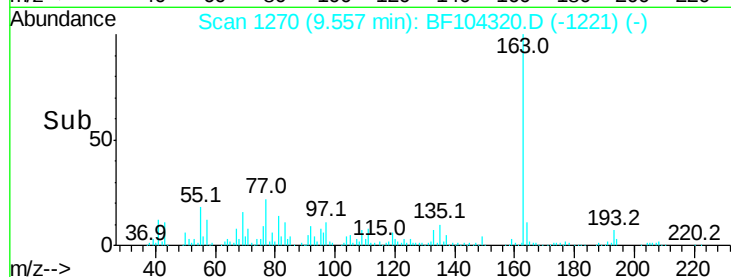
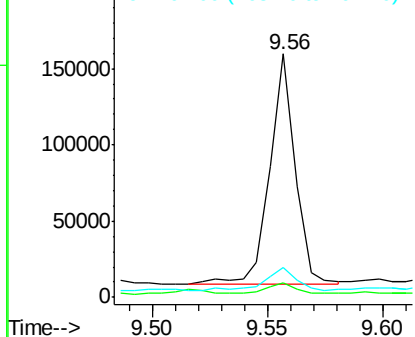
#49  
Dimethylphthalate  
Concen: 6.672 ng  
RT: 9.56 min Scan# 1270  
Delta R.T. -0.01 min  
Lab File: BF104320.D  
Acq: 6 Apr 2018 21:56

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:163 Resp: 115145  
Ion Ratio Lower Upper  
163 100  
194 6.1 2.7 4.1#  
164 12.0 8.2 12.2

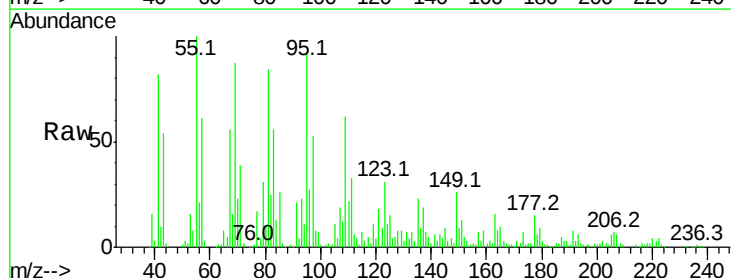


Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

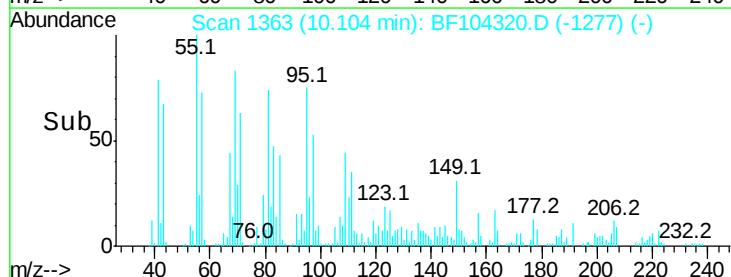
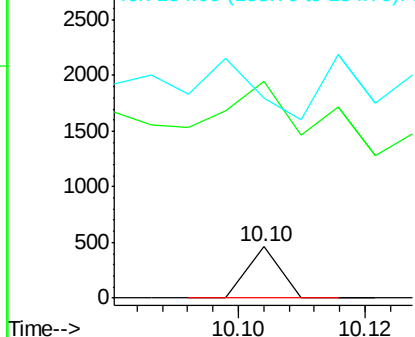


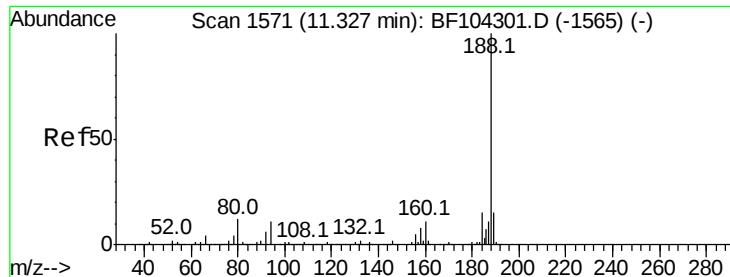
#53  
2,4-Dinitrophenol  
Concen: 5.312 ng  
RT: 10.10 min Scan# 1363  
Delta R.T. 0.21 min  
Lab File: BF104320.D  
Acq: 6 Apr 2018 21:56

Tgt Ion:184 Resp: 163  
Ion Ratio Lower Upper  
184 100  
63 419.9 54.2 81.2#  
154 389.2 184.0 276.0#



Abundance Ion 184.00 (183.70 to 184.70): E  
Ion 63.00 (62.70 to 63.70): BF1  
Ion 154.00 (153.70 to 154.70): E

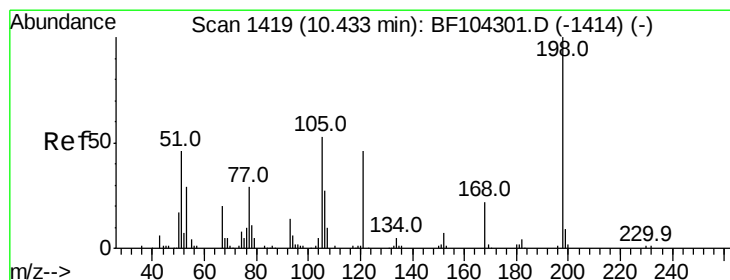
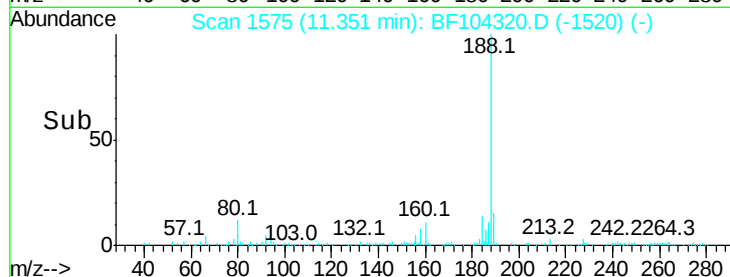
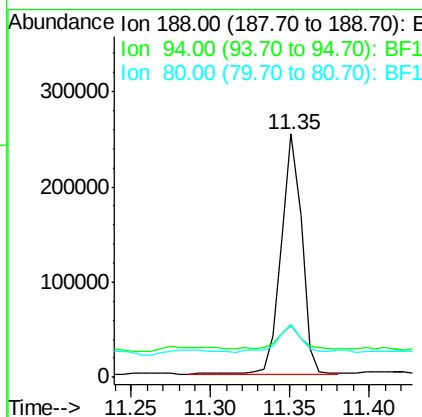
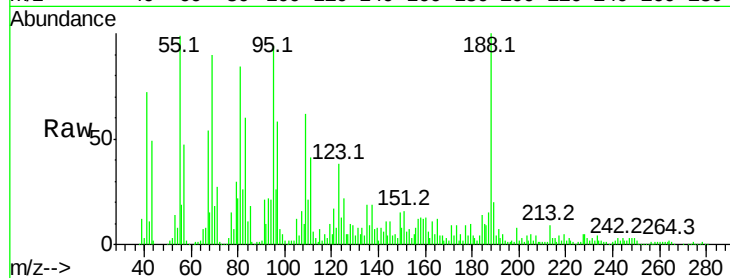




#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.35 min Scan# 1575  
Delta R.T. 0.02 min  
Lab File: BF104320.D  
Acq: 6 Apr 2018 21:56

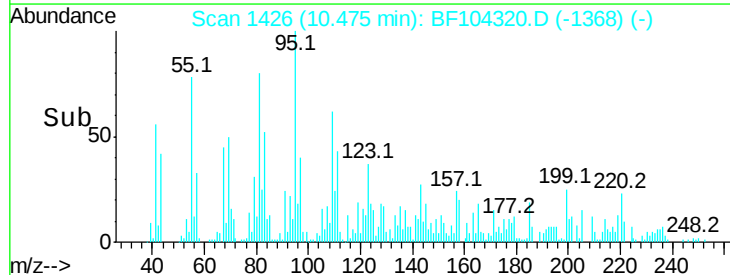
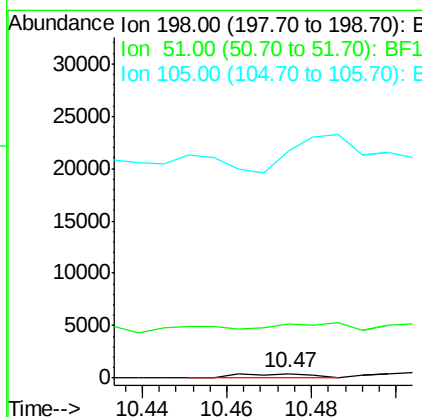
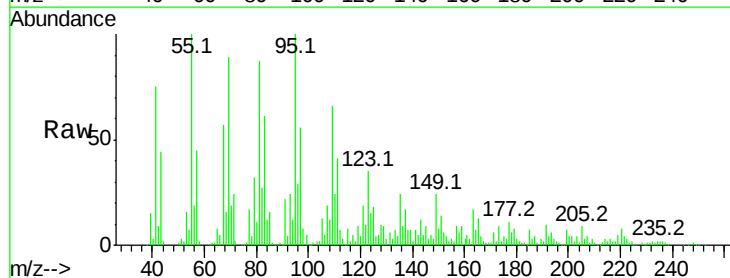
Instrument :  
BNA\_F  
ClientSampleId :

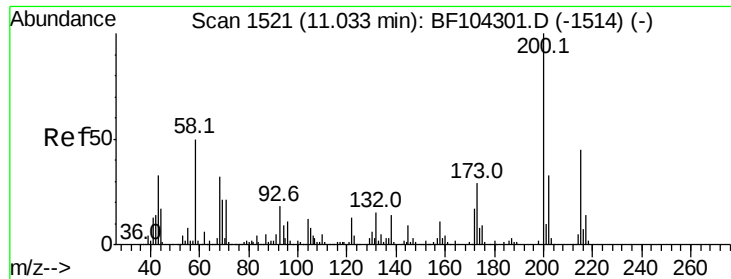
Tot Ion:188 Resp: 226230  
Ion Ratio Lower Upper  
188 100  
94 21.1 8.5 12.7#  
80 21.5 9.2 13.8#



#64  
4,6-Dinitro-2-methylphenol  
Concen: 7.738 ng  
RT: 10.47 min Scan# 1426  
Delta R.T. 0.04 min  
Lab File: BF104320.D  
Acq: 6 Apr 2018 21:56

Tgt Ion:198 Resp: 508  
Ion Ratio Lower Upper  
198 100  
51 1167.8 37.7 77.7#  
105 4933.3 36.3 76.3#

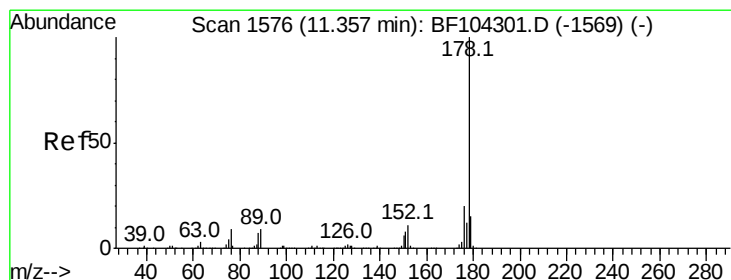
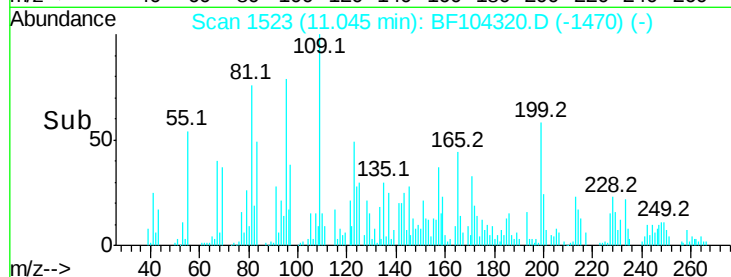
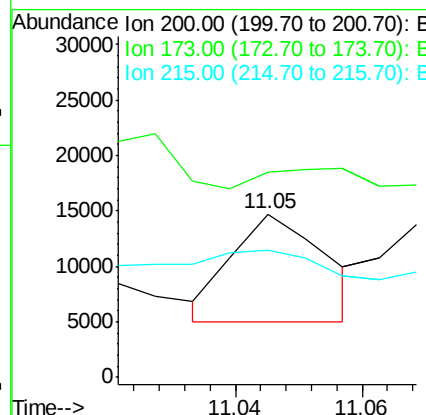
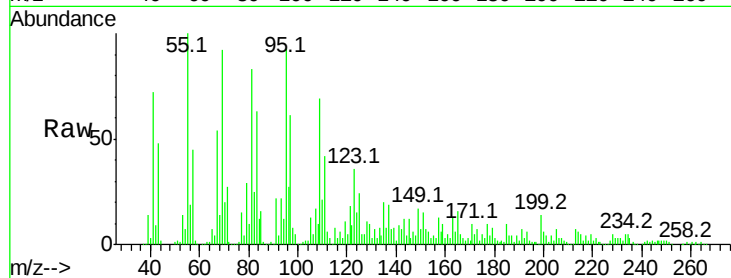




#68  
Atrazine  
Concen: 4.199 ng  
RT: 11.05 min Scan# 1523  
Delta R.T. 0.01 min  
Lab File: BF104320.D  
Acq: 6 Apr 2018 21:56

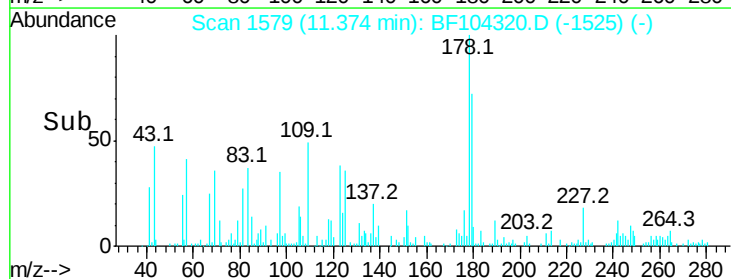
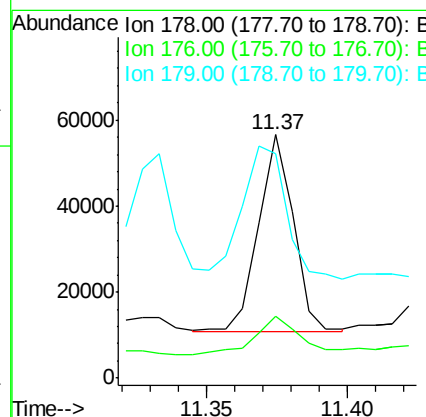
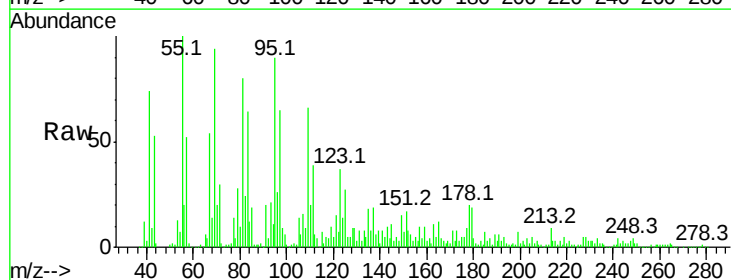
Instrument :  
BNA\_F  
ClientSampled :

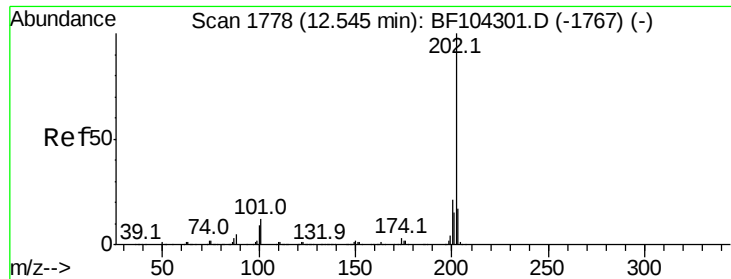
Tot Ion:200 Resp: 9941  
Ion Ratio Lower Upper  
200 100  
173 125.3 8.6 48.6#  
215 77.7 25.1 65.1#



#70  
Phenanthrene  
Concen: 3.127 ng  
RT: 11.37 min Scan# 1579  
Delta R.T. 0.02 min  
Lab File: BF104320.D  
Acq: 6 Apr 2018 21:56

Tgt Ion:178 Resp: 39402  
Ion Ratio Lower Upper  
178 100  
176 25.2 15.8 23.8#  
179 92.4 13.0 19.6#





#74

Fluoranthene

Concen: 5.122 ng

RT: 12.57 min Scan# 1782

Delta R.T. 0.02 min

Lab File: BF104320.D

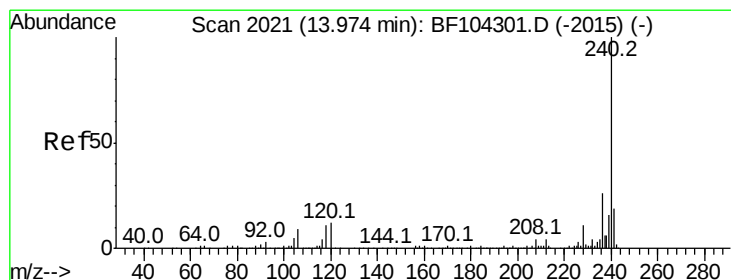
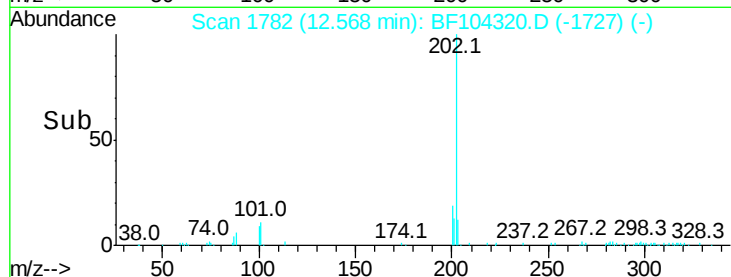
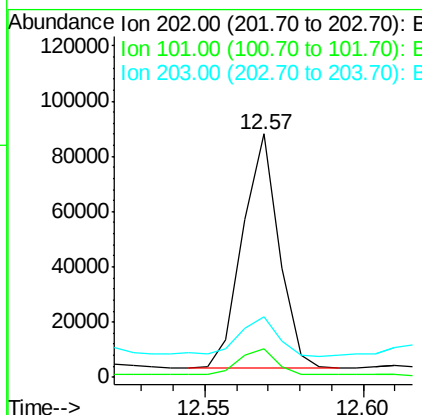
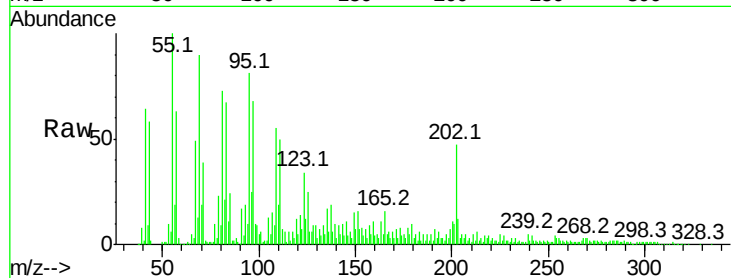
Acq: 6 Apr 2018 21:56

Instrument :

BNA\_F

ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 202   | Resp: | 67417 |
| Ion      | Ratio | Lower | Upper |
| 202      | 100   |       |       |
| 101      | 11.7  | 0.0   | 34.1  |
| 203      | 24.7  | 0.0   | 38.1  |



#75

Chrysene-d12

Concen: 20.000 ng

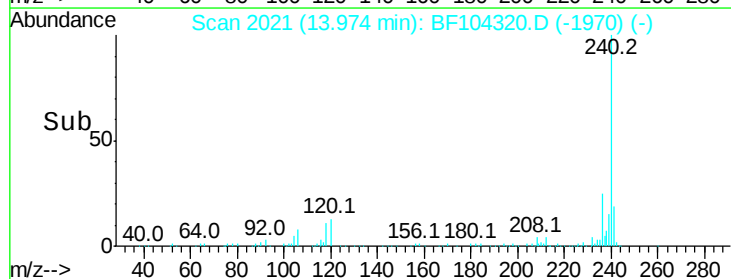
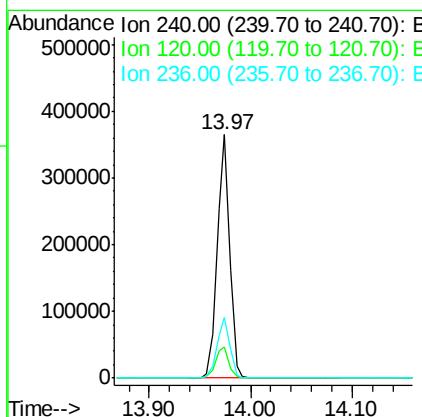
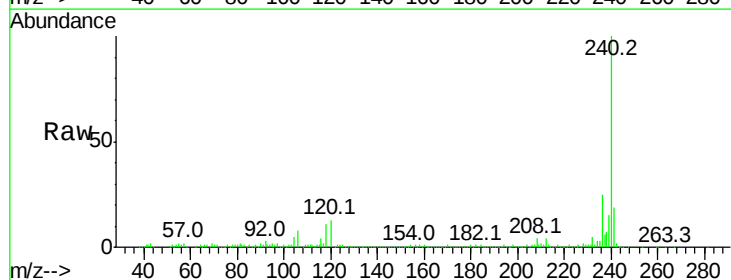
RT: 13.97 min Scan# 2021

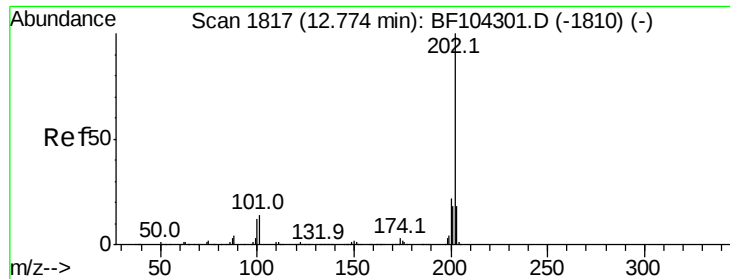
Delta R.T. -0.00 min

Lab File: BF104320.D

Acq: 6 Apr 2018 21:56

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 240   | Resp: | 311228 |
| Ion      | Ratio | Lower | Upper  |
| 240      | 100   |       |        |
| 120      | 13.0  | 9.5   | 14.3   |
| 236      | 25.1  | 20.7  | 31.1   |





#77

Pvrene

Concen: 3.329 ng

RT: 12.79 min Scan# 1820

Delta R.T. 0.02 min

Lab File: BF104320.D

Acq: 6 Apr 2018 21:56

Instrument :

BNA\_F

ClientSampleId :

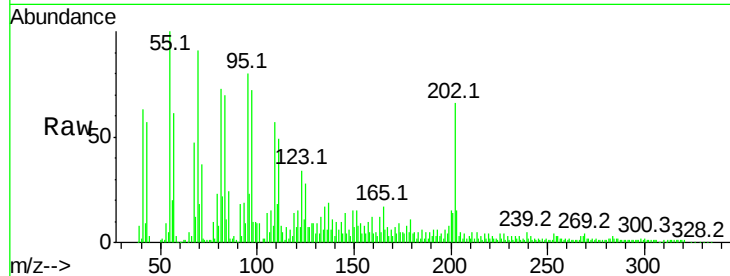
Tot Ion:202 Resp: 76794

Ion Ratio Lower Upper

202 100

200 22.8 17.4 26.2

203 23.4 14.3 21.5#



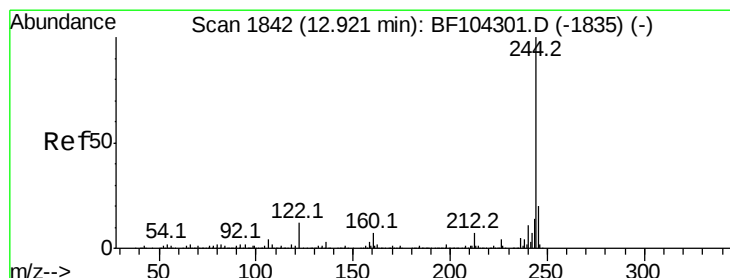
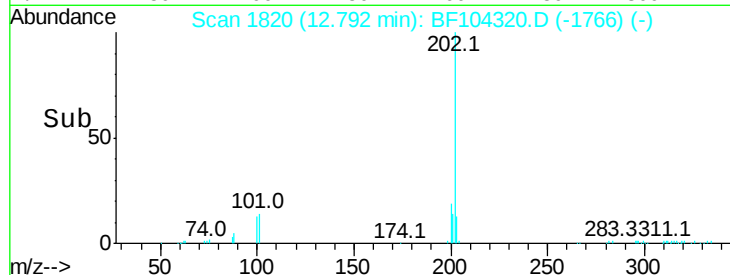
Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

12.79

Time-->



#78

Terphenyl-d14

Concen: 52.991 ng

RT: 12.93 min Scan# 1844

Delta R.T. 0.01 min

Lab File: BF104320.D

Acq: 6 Apr 2018 21:56

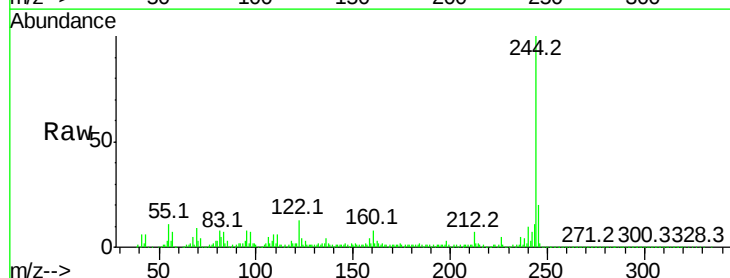
Tgt Ion:244 Resp: 723398

Ion Ratio Lower Upper

244 100

212 7.2 5.4 8.0

122 13.4 11.0 16.4



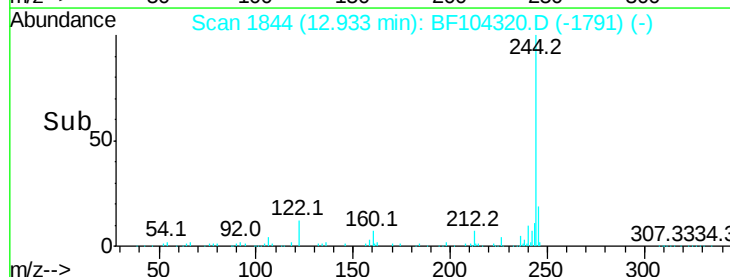
Abundance Ion 244.00 (243.70 to 244.70): E

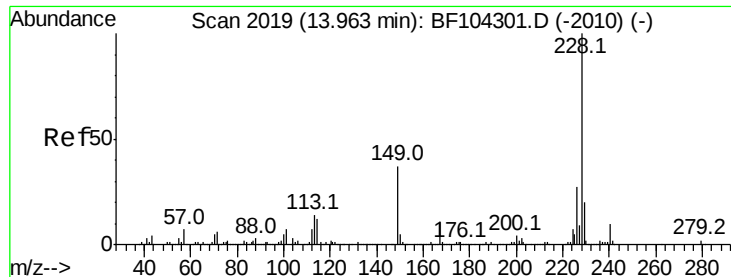
Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

12.93

Time-->

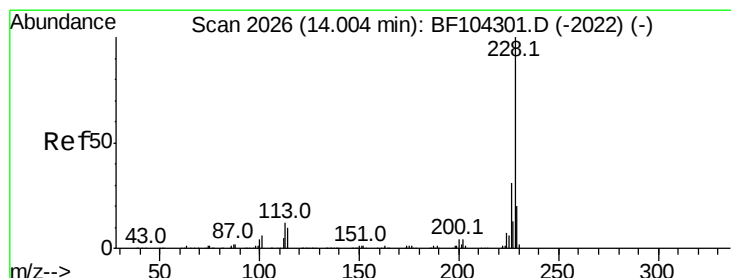
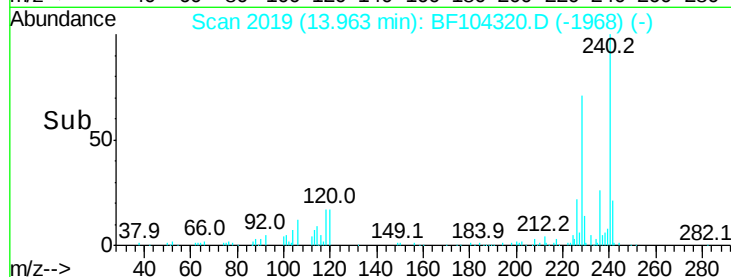
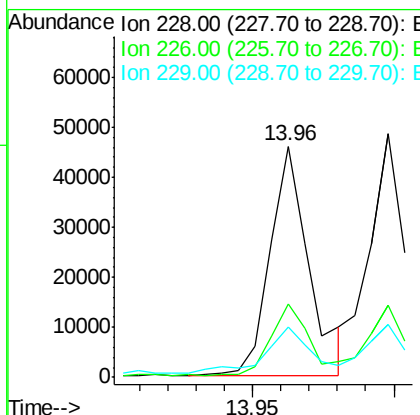
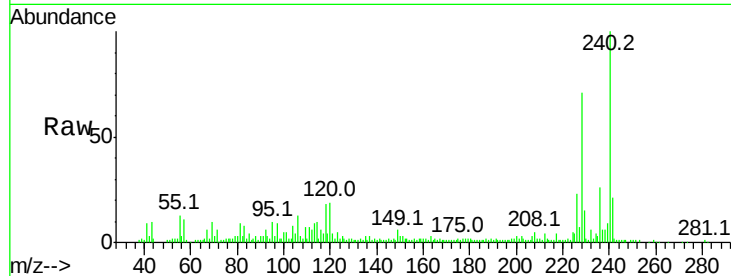




#80  
Benzo(a)anthracene  
Concen: 2.352 ng  
RT: 13.96 min Scan# 2019  
Delta R.T. -0.00 min  
Lab File: BF104320.D  
Acq: 6 Apr 2018 21:56

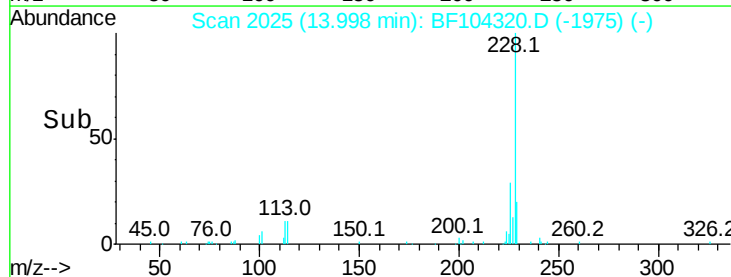
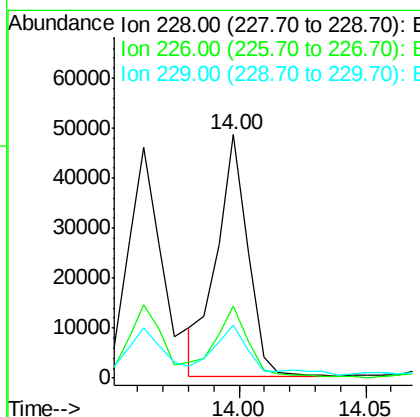
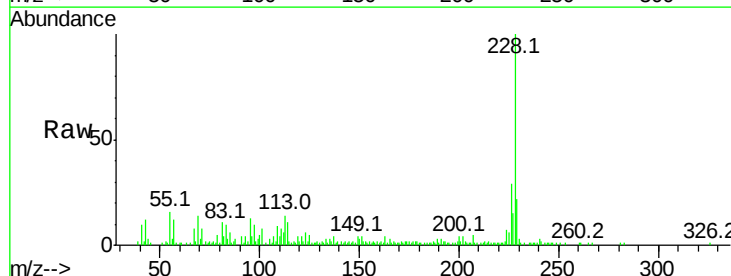
Instrument :  
BNA\_F  
ClientSampleId :

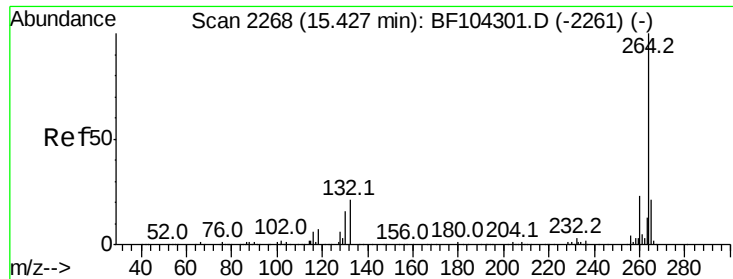
Tot Ion:228 Resp: 43731  
Ion Ratio Lower Upper  
228 100  
226 31.8 22.6 33.8  
229 21.7 15.8 23.6



#82  
Chrysene  
Concen: 2.165 ng  
RT: 14.00 min Scan# 2025  
Delta R.T. -0.01 min  
Lab File: BF104320.D  
Acq: 6 Apr 2018 21:56

Tgt Ion:228 Resp: 41347  
Ion Ratio Lower Upper  
228 100  
226 29.4 25.0 37.6  
229 21.6 16.2 24.4



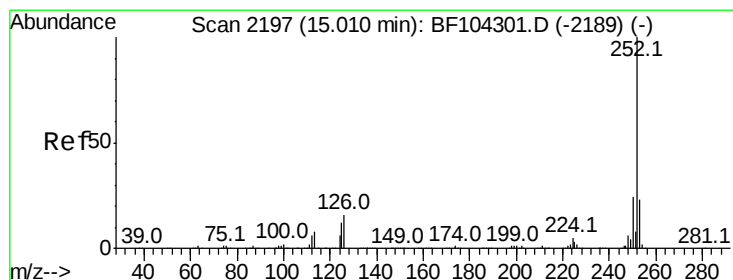
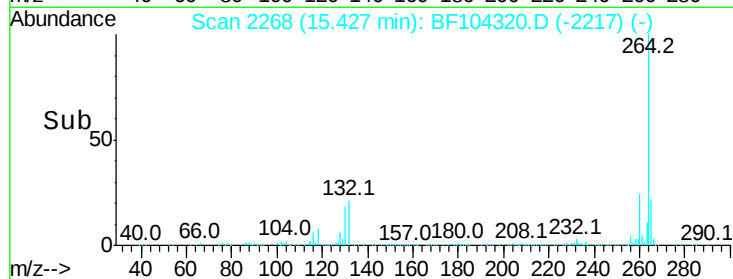
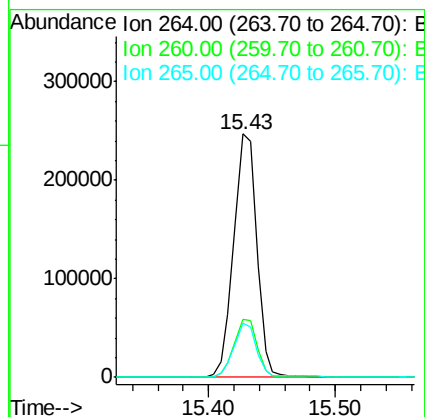
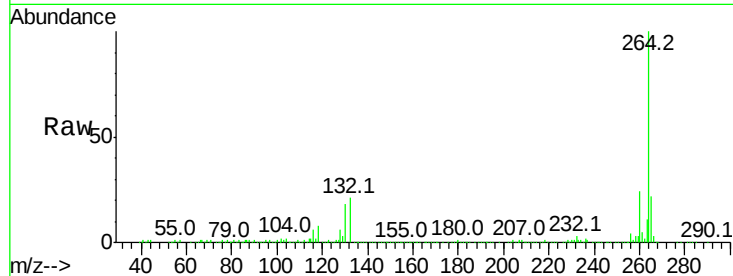


#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.43 min Scan# 2268  
Delta R.T. -0.00 min  
Lab File: BF104320.D  
Acq: 6 Apr 2018 21:56

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:264 Resp: 310669  

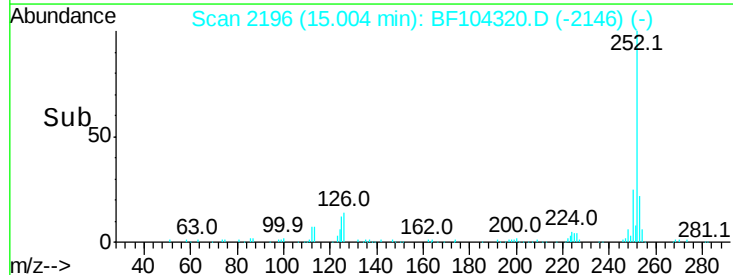
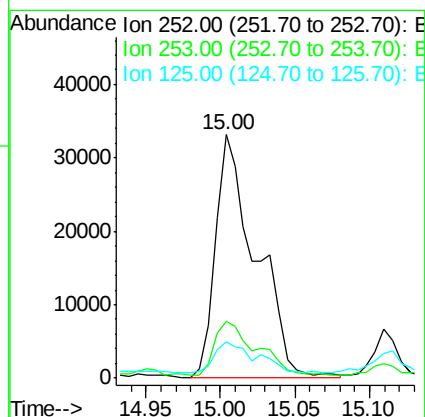
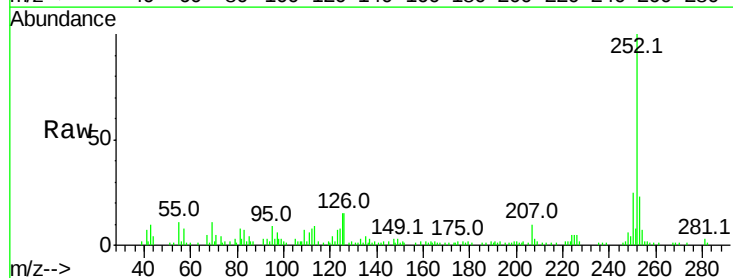
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 23.7  | 19.2  | 28.8  |
| 265 | 22.3  | 17.5  | 26.3  |

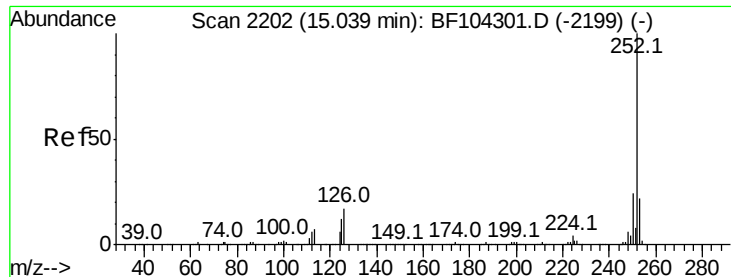


#87  
Benzo(b)fluoranthene  
Concen: 3.181 ng  
RT: 15.00 min Scan# 2196  
Delta R.T. -0.01 min  
Lab File: BF104320.D  
Acq: 6 Apr 2018 21:56

Tgt Ion:252 Resp: 62409  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 23.1  | 17.0  | 25.6  |
| 125 | 14.7  | 9.0   | 13.6  |

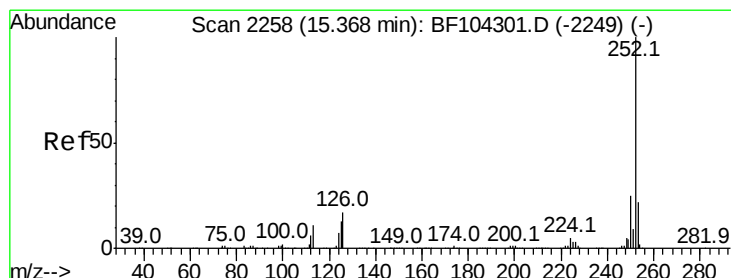
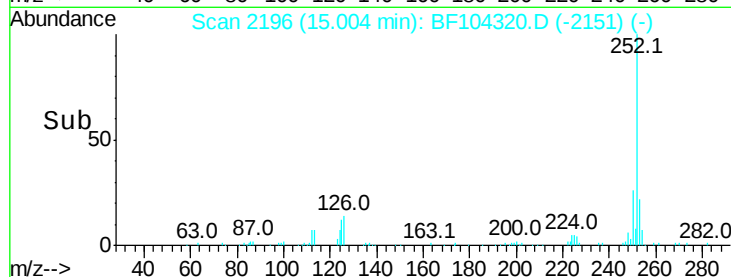
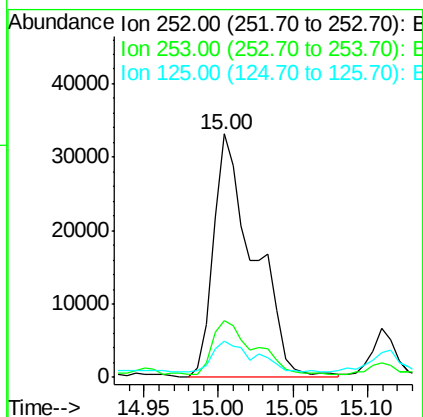
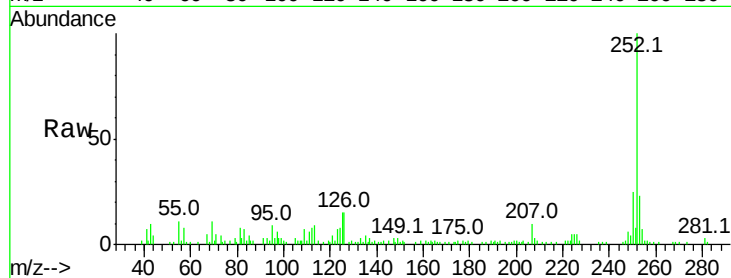




#88  
Benzo(k)fluoranthene  
Concen: 3.369 ng  
RT: 15.00 min Scan# 2196  
Delta R.T. -0.04 min  
Lab File: BF104320.D  
Acq: 6 Apr 2018 21:56

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:252 Resp: 62409  
Ion Ratio Lower Upper  
252 100  
253 23.1 17.9 26.9  
125 14.7 10.2 15.2



#89  
Benzo(a)pyrene  
Concen: 2.025 ng  
RT: 15.36 min Scan# 2257  
Delta R.T. -0.01 min  
Lab File: BF104320.D  
Acq: 6 Apr 2018 21:56

Tgt Ion:252 Resp: 35543  
Ion Ratio Lower Upper  
252 100  
253 23.4 17.1 25.7  
125 16.1 9.8 14.6#

